

### **Amendment to the Claims:**

Applicants respectfully request that the claims in the subject patent application be amended as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

- Claim 1      (Original)      A catalyst having a macropore structure comprising zeolite Y wherein the peak macropore diameter of the catalyst, measured by ASTM Test No. D 4284-03, is less than about 2000 angstroms and the cumulative pore volume of the catalyst at pore diameters less than or equal to about 500 angstroms, measured by ASTM Test No. D 4284-03, is less than or equal to about 0.30 milliliters per gram.
- Claim 2      (Original)      The catalyst of claim 1 wherein the cumulative pore volume at pore diameters less than or equal to about 400 angstroms is less than about 0.30 milliliters per gram.
- Claim 3      (Original)      The catalyst of claim 2 wherein the cumulative pore volume at pore diameters less than or equal to about 300 angstroms is less than about 0.25 milliliters per gram.
- Claim 4      (Original)      The catalyst of claim 3 wherein the cumulative pore volume at pore diameters less than or equal to about 300 angstroms is less than about 0.20 milliliters per gram.
- Claim 5      (Original)      The catalyst of claim 4 wherein the cumulative pore volume of the catalyst at pore diameters less than or equal to about 400 angstroms is in the range of about 0.05 milliliters per gram to about 0.18 milliliters per gram.

- Claim 6 (Original) The catalyst of claim 5 wherein the cumulative pore volume of the catalyst at pore diameters less than or equal to about 300 angstroms is in the range of about 0.08 milliliters per gram to about 0.16 milliliters per gram.
- Claim 7 (Original) The catalyst of claim 1 wherein the peak macropore diameter is in the range of about 700 angstroms to about 1800 angstroms.
- Claim 8 (Original) The catalyst of claim 7 wherein the peak macropore diameter is in the range of about 750 angstroms to about 1600 angstroms.
- Claim 9 (Original) The catalyst of claim 8 wherein the peak macropore diameter of the catalyst is in the range of about 900 angstroms to about 1400 angstroms.
- Claim 10 (Original) The catalyst of claim 1 wherein the zeolite Y has a silica to alumina ratio of about 5:1 to about 100:1.
- Claim 11 (Original) The catalyst of claim 10 wherein the zeolite Y has a silica to alumina ratio of about 30:1 to about 80:1.
- Claim 12 (Original) The catalyst of claim 11 wherein the zeolite Y has the silica to alumina ratio of about 50:1 to about 70:1.
- Claim 13 (Original) The catalyst of claim 1 wherein the catalyst is in the form of a tablet.
- Claim 14 (Original) The catalyst of claim 13 wherein peak macropore diameter of the catalyst is in the range of about 500 angstroms to

about 1500 angstroms and cumulative pore volume at pore diameters less than or equal to about 500 angstroms is in the range of about 0.05 milliliters per gram to about 0.15 milliliters per gram.

- Claim 15 (Original) A catalyst composite comprising:
- (a) the catalyst of claim 1; and
  - (b) a binder.
- Claim 16 (Cancelled) The catalyst composite of claim 15 wherein the binder is a suitable inorganic material.
- Claim 17 (Currently Amended) The catalyst composite of claim ~~46~~ 15 wherein the binder is alumina.
- Claim 18 (Original) The catalyst composite of claim 15 wherein the zeolite Y is present in the range of about 40 weight percent to about 99 weight percent based on the total dry weight of the catalyst composite.
- Claim 19 (Original) The catalyst composite of claim 18 wherein the zeolite Y is present in the range of about 50 weight percent to about 85 weight percent based on the total dry weight of the catalyst composite.
- Claim 20 (Previously Amended) A process for preparing a catalyst composite comprising:
- (a) contacting a zeolite Y with a binder in the presence of volatiles to form a mixture wherein the weight percent of zeolite Y is in the range of about 40 to about 99 percent based on the total dry weight of the resulting catalyst

composite, and wherein the volatiles in the mixture are in the range of about 30 weight percent to about 70 weight percent of the mixture;

- (b) shaping the mixture to form a composite;
- (c) drying the composite; and
- (d) calcining the composite in a substantially dry environment.

Claim 21 (Original) The process of claim 20 wherein in step (b) shaping comprises extruding.

Claim 22 (Original) The process of claim 20 wherein in step (a) the weight percent of zeolite Y is in the range of about 50 to about 85.

Claim 23 (Cancelled) The process of claim 20 wherein the binder in step (a) is a suitable inorganic material.

Claim 24 (Currently Amended) The process of claim ~~23~~20 wherein the binder is alumina.

Claim 25 (Original) The process of claim 20 wherein in step (a) the volatiles in the mixture are present in the range of about 40 weight percent to about 60 weight percent of the mixture.

Claim 26 (Original) The process of claim 25 wherein the volatiles comprise water and an acid.

Claim 27 (Original) A catalyst composite prepared by the process of claim 20.

Claim 28-43 (Cancelled)